

CLAIMS

1. A process for rendering graphics in a computer environment, comprising

5 the steps of:

binning frame geometries into screen tiles;

determining the visible fragments of said geometries for each of said screen tiles by traversing said geometries multiple times;

rasterizing parameter values for said visible fragments;

10 shading said visible fragments; and

resolving colors for each pixel.

2. The process of Claim 1, wherein said binning step includes screen space tiling.

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3. The process of Claim 1, wherein said binning step uses single+ buffering for page memory management.

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4. The process of Claim 1, wherein said determining step generates depth information.

5. The process of Claim 1, wherein said determining step converts primitives.

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6. The process of Claim 1, wherein said determining step outputs visible fragments and visible geometries.

7. The process of Claim 6, wherein said determining step stores visibility information on a first pass and outputs visibility information on a last pass.